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(54) SHEET-LIKE PACK FOR LIP

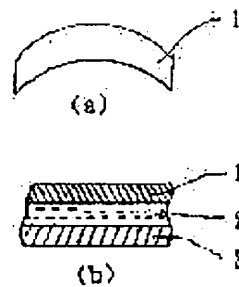
(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject pack which improves the lip roughening and the dark color, shows excellent effect of well spreading cosmetics such as lipstick and the like and has the function capable of conveniently reforming the state of lip by formulating a high molecular adhesive to a wetting agent.

SOLUTION: This sheet-like pack for lip is obtained by formulating a high molecular adhesive (e.g. carageenan, gellan gum, etc.), and a wetting agent (e.g. glycerol, diglycerol, polyglycerol, etc.), preferably in amounts of 0.01-20 wt. % and 0.1-70 wt.%, respectively. The

objective pack is composed of the sheet which is of the plate form with 2 mm or less thick and the chevroned or bowshaped one is preferable, because it is readily

adhered to lips. As this pack, one laminating the gel-like pack 2 on the surface of the support 1, e.g. a nonwoven fabric composed of natural fibers and synthetic fibers or a porous foamed resin film, is preferable in views of the form retention, the easy usability and the hygienic aspect. The layer 3 is composed of a mold-releasing paper (polyester film).



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3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention improves the dry area of a lip, and dullness, and relates to the charge for lips excellent in the effectiveness which improves the paste of cosmetics, such as a lip stick, of a pack. It is sticking the charge of a pack of the shape of a sheet containing polymer gum and a wetting agent on a lip in more detail, and is related with the charge for sheet-like lips of a pack which has the function in which the condition of a lip is improvable simple.

[0002]

[Description of the Prior Art] Kamiichi of the lip stick which blended moisturizers, such as polyhydric alcohol and hyaluronic acid, and the lip cream is carried out in order to improve the dry area of a lip conventionally. For example, lip cosmetics aiming at improving the dry area of the lip which consists of a coat formation agent, a wetting agent, fats and oils, and water are proposed by JP,5-70326,A. Moreover, the lips protective agent which consists of a coat formation agent, a wetting agent, and a fats-and-oils low is proposed by JP,61-176512,A.

[0003]

[Problem(s) to be Solved by the Invention] however, after the air of autumn - winter has dried In the cosmetics of the moisturization lip stick type which is intense in many cases as for the dry area accompanying desiccation of a lip, and is represented by said lip cosmetics There is a problem that effectiveness is weak in solving this problem. Moreover, said lips protective agent The problem which applied upwards and cannot use a lip stick since it has the gestalt of a solution - gel, although it accepts, and the problem on which a burden physical when dropping is applied to a lip, and a lip is conversely damaged since it is necessary to drop the applied paint film were effective.

[0004]

[Means for Solving the Problem] As a result of inquiring wholeheartedly in view of the above-mentioned actual condition, this invention persons are sticking on a lip the charge of a pack which contained polymer gum and a wetting agent and was formed in the shape of a sheet, and found out that the charge for lips of a pack which has the function in which the condition of a lip is improvable simple was obtained. That is, this invention is in the charge for sheet-like lips of a pack characterized by containing polymer gum and a wetting agent.

[0005]

[Embodiment of the Invention] With the polymer gum said by this invention, compatibility with water is more strong, and if it has the property to thicken, it cannot matter, but the polymer gum used by food or cosmetics can be used conventionally. It is desirable especially from a carrageenan and gellant gum being excellent in gestalt holdout also in it as an example of polymer gum, for example, although carrageenans (a kappa, a lambda, IOTA mold, etc.), gellant gum, xanthan gum, polyvinyl alcohol, a polyvinyl pyrrolidone, polyvinyl acetate, a carboxymethyl cellulose, a hydroxymethyl cellulose, a carboxyvinyl polymer, an alkyl denaturation carboxyvinyl polymer, an alginic acid, an agar, starch, polyacrylic acid, pectin, gelatin, albumin, a polypeptide, polyacrylamide, etc. are mentioned. In addition,

salts, such as sodium, a potassium, calcium, magnesium, and barium, may be formed, and even if it is each copolymer and mixture, it is [among these] available [a thing with ionicity].

[0006] Moreover, in the case where an inorganic system ** agent is used independently, although it is also possible to use the ** agent of inorganic systems, such as a smectite, a bentonite, an organic denaturation bentonite, a silicic anhydride, and a surface treatment silicic anhydride, with the above-mentioned polymer gum, since the holding power of the gestalt of a product is weak, it is not so desirable.

[0007] As a wetting agent said by this invention, conventionally, although what has been used by cosmetics, food, and drugs is mentioned, for example, polyhydric alcohol, such as a glycerol, diglycerol, polyglycerin, ethylene glycol, a diethylene glycol, a polyethylene glycol, propylene glycol, dipropylene glycol, a polypropylene glycol, 1, 3-butylene glycol, and an isoprene glycol, sorbitol, a saccharide, etc. are mentioned, it is desirable [glycerol, diglycerol, and especially polyglycerin] from excelling in the effectiveness of improving the condition of a lip also in it.

[0008] Thickness carries out the tabular configuration of 2mm or less to the shape of a sheet said by this invention preferably 10mm or less. Although it does not matter even when the thickness of a sheet is uniform and it is uneven, it is desirable that there is thickness of 1 micrometers or more because of maintenance of a sheet on the strength. Although it is desirable as a configuration of the charge for sheet-like lips of this invention of a pack since it is easy to stick the thing of the crest type set by the configuration of a lip, or a bow type on a lip, the thing of various configurations, such as a rectangle, is mentioned out of it, and it is not limited to especially a configuration. In order to prevent a gap of the right and left when sticking on a lip in the charge for sheet-like lips of this invention of a pack, especially the thing to establish for the mark of the alignment which becomes the shape of the center line from printing, a stamp, concave heights, etc. is desirable.

[0009] When it has the structure where the wetting agent was held, in the above-mentioned polymer gum and it is contacted on the lip, as for the charge for sheet-like lips of this invention of a pack, it is desirable to have the structure where the wetting agent permeates the membrane of a lip.

[0010] Although what was made to dry the charge for lips containing polymer gum and a wetting agent of a pack itself as a charge for sheet-like lips of this invention of a pack, and was made into the shape of a sheet is applicable The thing by which the laminating of the gel charge of a pack was carried out to the front face of supporters, such as a nonwoven fabric which consists of a natural fiber, a synthetic fiber, and a regenerated fiber, a textile, paper, a synthetic-resin film, and a porous foaming resin film, and the thing formed at the following multilayer structure are desirable from a health side etc. in gestalt holdout and the ease of using. For example, it is the charge for sheet-like lips of multilayer structure of a pack which prepared the layer which has an adhesive property further in the front face of the charge of a pack adhering to a lip. The thing which made a part of gel charge of a pack sink in and hold preferably especially to the parts of a nonwoven fabric, a porous foaming resin film, etc. which are porosity and are the supporters which have permeability for the purpose which raises further the gestalt holdout of the charge for sheet-like lips of a pack in addition to the ease of using at the time of use or a health side is mentioned.

[0011] As for the loadings of the polymer gum and the wetting agent in this invention, it is desirable that there is polymer gum and a wetting agent is in 0.1 - 95% of the weight of the range 0.01 to 95% of the weight to the total amount of the charge of a pack. If it separates from these range, a sheet-like gestalt may be unable to be held, a wetting agent may dissociate from a sheet, and the effectiveness of stopping presenting gel and improving the condition of a lip may not be acquired. As range especially desirable in the above-mentioned loadings, polymer gum is 0.01 - 20 % of the weight, and a wetting agent is 0.1 - 70 % of the weight.

[0012] It is desirable that the field where a sheet contacts a lip in this invention has an adhesive property from the purpose which raises fit nature with a lip. As adhesive resin and an example of a macromolecule, for example Polyacrylic acid, polyacrylate, Polymethacrylic acid, a polymethacrylic acid salt, polyvinyl alcohol, a polyvinyl pyrrolidone, Polyacrylamide, a polyacrylamide salt, poly methacrylamide, A poly methacrylamide salt, methacryloiloxy-ethyl trimethylammonium chloride,

Methacrylamide propyl trimethylammonium chloride, N-n-butoxy methylacrylamide, N-iso-butoxy acrylamide, t-butyl acrylamide sulfonic acid, t-butyl acrylamide sulfonate, dimethylaminopropyl methacrylamide, A methoxy ethylene succinic-anhydride copolymer, chlorination dimethylamino ammonium, Or the copolymer of these polymerization nature monomer raw material and other polymerization nature monomers, Or a carboxymethyl-cellulose salt, alginate, a carrageenan, Water soluble polymers, such as xanthan gum, an agar, and cation-ized gar gum, a vinyl acetate crotonic-acid copolymer, A propionic-acid vinyl crotonic-acid copolymer, polyvinyl acetate, a trimethylsiloxy silicic acid, The copolymer of silicone resin, polystyrene, acrylic denaturation silicone resin, acrylic denaturation silicone, an epoxy resin, a polyacrylonitrile or these polymerization nature monomer raw material, and other polymerization nature monomers etc. is mentioned. The above-mentioned adhesive resin etc. may be blended with polymer gum and a wetting agent into the charge of a pack, and the thing in which films, such as the above-mentioned resin, were formed on the front face of the charge of a pack in contact with a lip is also available.

[0013] At the charge for sheet-like lips of this invention of a pack, components, such as the fine particles (the pigment, coloring matter, resin) and oils which are usually used for the cosmetics other than the above-mentioned component, a fluorine compound, resin, a surfactant, a ** agent, an ultraviolet ray absorbent, antiseptics, perfume, a moisturizer, bioactive components (ceramides, a circulation accelerator, a vitamin compound, an anti-inflammatory agent, menthol, propolis, etc.), an enzyme, salts, a solvent, a chelating agent a neutralizer, and pH regulator, can be blended with coincidence

[0014] As fine particles used by this invention, for example Red No. 104, red No. 201, Coloring matter, such as yellow No. 4, blue No. 1, and black No. 401, a yellow No. 4 aluminum lake, Lake coloring matter, such as a yellow No. 203 Ba lake, nylon powder, silk powder, Macromolecules, such as urethane powder, Teflon powder, silicone powder, and cellulose powder, Yellow oxide of iron, red ferrous oxide, black oxide of iron, chromic oxide, carbon black, White pigments, such as colored pigments, such as ultramarine blue and Berlin blue, a zinc oxide, titanium oxide, and cerium oxide, Pearl pigments, such as extenders, such as talc, a mica, a sericite, and a kaolin, and mica titanium, Inorganic fine particles, such as metal salts, such as a barium sulfate, a calcium carbonate, a magnesium carbonate, aluminum silicate, and a magnesium silicate, a silica, and an alumina, an apatite, hydroxyapatite, etc. are mentioned. As for the configuration of these fine particles, especially a limit does not have the shape of tabular, a globular shape, fusiform, a needle, a cylinder, and an indeterminate form etc. If the range also of magnitude is 0.005-100 micrometers in the first [an average of] particle diameter, especially satisfactory (especially the range whose first [an average of] particle diameter is 0.01-20 micrometers is desirable) Moreover, surface treatment, such as metallic soap processing, N-acylation amino acid processing, siliconization, fluorine compound processing, polyhydric-alcohol processing, oils processing, silanizing, and inorganic oxide processing, may be performed. Since the giant molecule above-mentioned in the inside of this, a silica bead, etc. are excellent in the effectiveness of improving the feel of the touch, its value blended at the charge for sheet-like lips of this invention of a pack is high.

[0015] As an example of oils, cetyl alcohol, isostearyl alcohol, Higher alcohol, such as lauryl alcohol, hexadecyl alcohol, and an octyl dodecanol, Fatty acids, such as isostearic acid, undecylenic acid, and oleic acid, myristic-acid Millis Chill, Lauric-acid hexyl, oleic acid DESHIRU, myristic-acid isopropyl, Dimethyl octanoic-acid hexyl DESHIRU, glyceryl monostearate, Ester, such as a diethyl phthalate, monostearin acid ethylene glycol, and oxy-stearin acid octyl Fats and oils, such as lows, such as hydrocarbons, such as a liquid paraffin, vaseline, and squalane, lanolin, reduction lanolin, and a cull navarho, a mink oil, cacao butter, palm oil, palm kernel oil, camellia oil, sesame oil, castor oil, and olive oil, ethylene alpha-olefin co-oligomer, etc. are mentioned.

[0016] As an example of the oils of another gestalt, for example Moreover, dimethylpolysiloxane, Methil hydrogen polysiloxane, a methylphenyl polysiloxane,

acid, and silicone RTV rubber, a perfluoro polyether, a fluoride pitch, fluorocarbon, fluoro alcohol, and fluorination silicone resin, are mentioned.

[0017] As a surface active agent, an anion mold surface active agent, a cation mold surface active agent, the Nonion mold surface active agent, and a betaine mold surface active agent can be used, for example.

[0018] A lip is made to stick and stick the charge for sheet-like lips of a pack as operation of the charge for sheet-like lips of this invention of a pack, and for 1 - 60 minutes, after leaving it for 5 - 30 minutes preferably, the approach of exfoliating is mentioned. Moreover, it is before sleeping and it is also possible to improve the condition of a lip greatly by leaving it in the case where the dry area of a lip is severe for 1 to 12 hours, with the charge for sheet-like lips of a pack stuck. In addition, although polyhydric alcohol may absorb the moisture of a lip and a lip may dry conversely immediately after use, the charge for sheet-like lips of this invention of a pack is immediately balanced according to the sealing effectiveness of the charge of a pack, and becomes possible [acquiring a moisturizincy effect and the improvement effect of a lip]. Therefore, although it is based also on the condition of a lip since effectiveness will be hard to be acquired if it exfoliates in the phase where the sealing effectiveness is not acquired immediately after use, generally it is desirable for 5 minutes to make it stick. Moreover, in order to make a higher adhesion condition, before using the charge of a pack, it is desirable to lick or soak a lip in a tongue.

[0019]

[Example] Hereafter, this invention is concretely explained based on an example and a drawing. The organic-functions evaluation trial of a product was carried out as follows. In addition, the same component attached the same sign with the drawing.

[Organic-functions evaluation trial of the charge for sheet-like lips of a pack] I had ten special panelists (woman) try a specimen for one week, and had the result after trial answered in a questionnaire format. (Trial conditions are indicated for each example and the example of a comparison) each evaluation criteria from a questionnaire result -- receiving -- effectiveness -- **** -- ten points -- carrying out -- effectiveness -- **** -- zero point -- carrying out -- all panelists' number of the average mark (below decimal point rounding off) -- with, it considered as the evaluation result. Therefore, it is shown that effectiveness is so high that mark are high.

[0020] The charge for lips of a pack was produced by the formula of the example 1 following table 1.

[0021]

[Table 1]

配 合 成 分	重量%
成分A	
ジグリセリン (湿潤剤)	23.0
精製水	71.9
カップカラギーナン (高分子粘剤)	1
イオタカラギーナン (高分子粘剤)	2
塩化カリウム	0.2
成分B	
プロポリス	0.3
ハチミツ	0.6
オクテニルコハク酸トウモロコシデンブン	1.0
エステルアルミニウム	
防腐剤	適量

[0022] The solution which carried out the heating dissolution of the component A of Table 1 at 80

degrees C was produced, the component B mixed in advance to this was supplied and strong-agitated, and the solution was obtained. Subsequently, after feeding the solution into the sink mold and cooling the whole mold, the supporter of polyester film (thickness of 20micro) and the release paper of the siliconized polyester film (thickness of 50micro) were stuck to each field of the obtained gel charge of a pack by pressure, and the sheet-like product was obtained (the thickness of gel was set up by 0.8mm). And as shown in drawing 2, the thing with the configuration of the crest type four-piece form shown in drawing 1 (a) cut the above-mentioned sheet-like product, pierced with the cutting edge so that it might be arranged continuously, and it obtained the product of the charge of a sheet-like lip pack of this invention. Drawing 1 (b) is the sectional view of the above-mentioned charge for sheet-like lips of a pack, and the layer of the charge of a pack of gel [1 / 2 / the layer of a supporter (polyester film) and] and 3 are the layers of a release paper (polyester film). And organic-functions evaluation was performed on the conditions which stick on a lip this article which removed the release paper for 5 minutes.

[0023] The solution produced in the example 2 example 1 is used. On the release paper of siliconization polyester film (thickness of 50micro) It supplies and cools further at the order of a solution. the above-mentioned solution and the polypropylene nonwoven fabric (30g/cm²) of a supporter -- After obtaining the sheet which has a three-tiered structure and sticking the release paper of siliconization polyester film (thickness of 50micro) by pressure further from it, it pierced in the form shown in drawing 1 (a), and the product of the charge of a sheet-like lip pack of this invention was obtained. The thickness of a product was 1.3mm. And organic-functions evaluation was performed on the conditions which stick on a lip this article which removed the release paper for 15 minutes.

[0024] The charge for lips of a pack was produced by the formula of the example 3 following table 2.

[0025]

[Table 2]

配 合 成 分	重量%
成分A	
ジェランガム (高分子粘剤)	0. 2
グリセリン (湿潤剤)	20. 0
10%乳酸カルシウム水溶液	0. 3
精製水	48. 0
成分B	
アルキル変性カルボキシビニルポリマー (高分子粘剤)	0. 5
精製水	30. 0
ボラージオイル	1. 0
防腐剤、抗酸化剤	適 量

[0026] The heating dissolution of Component A and Component B of Table 2 is carried out, respectively. After mixing a component A solution and a component B solution slowly under heating churning, the solution was fed into the sink mold and it cooled the whole mold. The obtained charge of a gel pack pierced to the bow type, the polyvinyl-alcohol spreading side of the polyester film (thickness of 20micro) which is the supporter which the pierced charge of a gel pack was made to apply and dry the water solution of polyvinyl alcohol beforehand, and coated one side with polyvinyl alcohol was made to stick by pressure, it pierced further in the configuration which holds the charge of a gel pack on the above-mentioned polyester film, and is shown in drawing 3, and the product of the charge of a sheet-like lip pack of this invention obtained. Drawing 3 is the top view which was seen from the charge side of a pack unlike drawing 1 and drawing 2, 1 is a supporter (polyester film), 1a is the convex tongue section formed in this supporter (1), 1b is the mark of the alignment stamped on the center line of this

supporter (1), and 2 is a gel charge of a pack. This article had the tongue section (1a) of a supporter (1), stuck it, doubling the mark (1b) of the charge of a sheet-like lip pack on the center line of a lip, was stuck for 10 minutes, and performed organic-functions evaluation.

[0027] After considering as a layer with a thickness of 0.1mm on the supporter of polyester film (20micro in thickness) using the solution produced in the example 4 example 1, it cooled and the gel charge of a sheet-like pack was obtained. On the other hand, the film which coated the front face (one side) of the release paper of siliconization polyester film with polyvinyl alcohol beforehand was produced, and it was stuck by pressure using the roller so that the field of the siliconization polyester film with which said charge of a sheet pack and polyvinyl alcohol were applied might paste up. The obtained sheet was pierced in the crest type configuration of drawing 4, and the product of the charge of a sheet-like lip pack of this invention was obtained. Drawing 4 is the top view of the charge of a sheet-like lip pack of this invention, 1 is a supporter and the charge of a gel pack and the release paper are arranged in the background. Since polyvinyl alcohol adhered to the front face of the charge of a sheet-like pack by removing the polyester film which is a release paper at the time of use, it was used having stuck the field of this polyvinyl alcohol on the lip. This article performed organic-functions evaluation on the conditions stuck on a lip before sleeping.

[0028] It considered as the example of a comparison using the lip cream of marketing which blended a wax and middle oil as 10 % of the weight of example of comparison 1 dipropylene glycols, 0.2 % of the weight of hyaluronic acid, and remaining components. This article performed organic-functions evaluation on the conditions given to a lip before sleeping.

[0029] The lips protective agent was produced by the formula of the example of comparison 2 following table 3.

[0030]

[Table 3]

配 合 成 分	重量%
ポリビニルアルコール	14.0
ポリビニルピロリドン	1.0
グリセリン	3.0
ソルビット (70%)	1.0
ラノリンアルコール	2.0
エタノール	1.0
精製水	78.0
防腐剤	適 量

[0031] Polyvinyl alcohol and a polyvinyl pyrrolidone are added to purified water, and it heated at 60 degrees C and was made to dissolve in **** completely in Table 3. Subsequently, after adding other components one by one and distributing them completely, it cooled slowly to 30 degrees C, and the product was obtained. This article performed organic-functions evaluation on the conditions removed after [of since it applies to a lip] 15 minutes.

[0032] By the formula of the example of comparison 3 following table 4, like said example 3, the charge for sheet-like lips of a pack was produced, and organic-functions evaluation was performed like the example 3.

[0033]

[Table 4]

配 合 成 分	重量%
成分A	
ジェランガム（高分子粘剤）	0. 2
グリセリン（湿潤剤）	
10%乳酸カルシウム水溶液	0. 3
精製水	68. 0
成分B	
アルキル変性カルボキシビニルポリマー（高分子粘剤）	0. 5
精製水	30. 0
ボラージオイル	1. 0
防腐剤、抗酸化剤	適 量

[0034] The evaluation result of the above-mentioned example and the example of a comparison is shown in the following table 5.

[0035]

[Table 5]

	唇の荒れが改善した	唇がなめらかになった
実施例 1	7	7
実施例 2	8	8
実施例 3	9	10
実施例 4	10	10
比較例 1	5	5
比較例 2	1	3
比較例 3	2	3

[0036] The result of Table 5 shows that each example of this invention shows the improvement effect of a lip. On the other hand, in the conventional lip cream of the example 1 of a comparison, the effectiveness of a certain thing of effectiveness was weaker. Moreover, in the example 2 of a comparison, conversely, the dry area has not improved but it turned out that it is inferior also to a feel. Moreover, it turned out that a dry area does not improve but the example 3 of a comparison is also inferior also to a feel.

[0037]

[Effect of the Invention] As stated above, it is clear that the effectiveness of improving the condition of a lip is acquired by using the charge for sheet-like lips of this invention of a pack.

[Translation done.]